# BRUHAT BANGALORE MAHANAGARA PALIKE
## DASARAHALLI ZONE

*Name of Work: Improvements to roads and drains at Bhuvaneshwari Nagara ward No:14 in Bagalagunte*

| | | | | | | Est. Cost Rs | 50.00 | Lakhs | |
|---|---|---|---|---|---|---|---|---|---|
| Sl | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
| 1 | KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in **Ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (P.141/I.19.1 PW, P & IWTD -SR 2015-16) | | | | | | | | |
| | | Cum | 1 | 120.00 | 0.45 | 0.45 | 24.30 | | |
| | | | | | | | 24.30 | 83.16 | 2021.00 |
| | Basic Rate | 77.00 | | | | | | | |
| | Add Area Weightage 8% | 6.16 | | | | | | | |
| | Total | 83.16 | | | | | | | |
| 2 | Removing B.S.Slab of drain and stacking etc., complete Page No. 25/ Item No. 5.32/ PWD SR 2015-16 | | | | | | | | |
| | | Sqm | 1 | 120.00 | 1.35 | | 162.00 | | |
| | | Consider 60% Qty | | | | | 97.20 | | |
| | Basic Rate | 59.00 | | | | | 64.80 | 63.72 | 4129.00 |
| | Add Area Weightage 8% | 4.72 | | | | | | | |
| | Total | 63.72 | | | | | | | |
| 3 | KSRB 4-1.3: Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @180 kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.3) PWD - SR 2015-16) | | | | | | | | |
| | | Cum | 1 | 120.00 | 0.45 | 0.15 | 8.10 | | |
| | Basic Rate | 4695.00 | | | | | 8.10 | 5070.60 | 41072.00 |
| | Add Area Weightage 8% | 375.60 | | | | | | | |
| | Total | 5070.60 | | | | | | | |
| 4 | KSRB 4-1.7 : Providing and laying in position **plain cement concrete** of mix 1:3:6 with OPC Cement @220 kgs with 20 mm and down size graded granite metal course aggregates @ 0.84 cum and fine aggregates @0.56 cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well comated, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per , Specification NO KBS 4.1,4.2 Page No 13/ Item No 4.7/PWD SR 2015-16 | | | | | | | | |

| Sl | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | Sqm | 2 | 120.00 | 0.20 | 0.10 | 4.80 | | |
| | Basic Rate | 5085.00 | | | | | 4.80 | 5491.80 | 26361.00 |
| | Add Area Weightage 8% | 406.80 | | | | | | | |
| | Total | 5491.80 | | | | | | | |
| 5 | Refixing stone slabs of drains and pointing in CM 1:3 etc complete Page No. 25/ Item No.5.33/ PWD SR 2015-16 | | | | | | | | |
| | | Sqm | Qty Vide Iteam No 2 | | | | 97.20 | 78.84 | 7663.00 |
| | Basic Rate | 73.00 | | | | | | | |
| | Add Area Weightage 8% | 5.84 | | | | | | | |
| | Total | 78.84 | | | | | | | |
| 6 | Providing **Granite slabs** selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5 thick (P. 25 I. 5.31.1) Page No. 25/ Item No. 5.31.1/ PWD SR 2015-16 | | | | | | | | |
| | | Sqm | Qty vied Item No 02 | | | | 162.00 | | |
| | | Deduct Availabe Qty Vide Iteam No 2 | | | | | 97.20 | | |
| | Basic Rate | 614.00 | | | | | 64.80 | 663.12 | 42970.00 |
| | Add Area Weightage 8% | 49.12 | | | | | | | |
| | Total | 663.12 | | | | | | | |
| 7 | Supplying and fixing **precast** rainforced concee slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials. | | | | | | | | |
| | | Sqm | 1 | 120.00 | 0.90 | | 108.00 | | |
| | Data Rates Approved | | | | | | 108.00 | 1600.00 | 172800.00 |
| 8 | KSRRB 500-3: **Scarifying** existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100mtr. sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications Specification No. KRBS 500-1 MORTH Chapter 5 Page No. 160/ Item No. 21.3/ PWD SR 2015-16 | | | | | | | | |
| | | Sqm | 1 | 1440.00 | 1.50 | | 2160.00 | | |
| | Basic Rate | 82.00 | | | | | 2160.00 | 88.56 | 191290.00 |
| | Add Area Weightage 8% | 6.56 | | | | | | | |
| | Total | 88.56 | | | | | | | |

| Sl | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 9 | KSRRB M400-1 For Grading I material construction of **granular sub-bas** by providing coarse graded crushed stone aggregates of Granite/ trap/basalt material spreading in uniform layers with motir grader on prepared surface mixing by a mix in place method with rotawater at OMC, and Compacting with vibratory roller to achieve the desired density, complete as per specifications.by mix in a Place method for course Graded Granular Sub Base Material as per 400-2 for grading I material . Page No 155/ Item No. 20.6.1 PWD SR 2015-16 | | | | | | | | |
| | | Cum | 1 | 1440.00 | 1.50 | 0.10 | 216.00 | | |
| | Basic Rate | 1353.00 | | | | | **216.00** | 1461.24 | 315628.00 |
| | Add Area Weightage 8% | 108.24 | | | | | | | |
| | TOTAL | **1461.24** | | | | | | | |
| 10 | Providing, laying, spreading and compacting graded stone aggregates to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.( PWD SR 2015-16, P.No.154, I No.20.18) | | | | | | | | |
| | Roads | Cum. | 1 | 1440.00 | 1.50 | 0.20 | **432.00** | 1713.96 | 740431.00 |
| | Basic Rate | 1587.00 | | | | | | | |
| | Add Area Weightage 8% | 126.96 | | | | | | | |
| | Total | 1713.96 | | | | | | | |
| 11 | Providing and applying **primer coat** with S.S. Bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.6 kg / sqm using mechanical means complete as per specifications, with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.( PWDSR 2015-16, P.No.157, I No.21.6) | | | | | | | | |
| | | Sqm | 1 | 1440.00 | 1.50 | | 2160.00 | | |
| | Basic Rate | 30.00 | | | | | **2160.00** | 32.40 | 69984.00 |
| | Add Area Weightage 8% | 2.40 | | | | | | | |
| | Total | 32.40 | | | | | | | |
| 12 | KSRRB 500-2: Cleaning the existing **black topped surface** with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. Specification No. KRBS 500-1 MORTH Chapter 5 **Page No. 160/ Item No. 21.2/ PWD SR 2015-16** | | | | | | | | |
| | | Sqm | 1 | 1440.00 | 4.00 | | 5760.00 | | |
| | Basic Rate | 3.00 | | | | | **5760.00** | 3.24 | 18662.00 |
| | Add Area Weightage 8% | 0.24 | | | | | | | |
| | Total | 3.24 | | | | | | | |

| Sl | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 13 | KSRRB 500-7: Providing and applying **tack coat on the prepared bla[illegible] topped** surfaces at 5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No. 160/ Item No. 21.7/ PWD SR 2009-10 | | | | | | | | |
| | | Sqm | 1 | 1440.00 | 4.00 | | 5760.00 | | |
| | | | | | | | **5760.00** | 15.12 | 87091.00 |
| | Basic Rate | 14.00 | | | | | | | |
| | Add Area Weightage 8% | 1.12 | | | | | | | |
| | Total | **15.12** | | | | | | | |
| | | | | | | | | | |
| 14 | Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications with 80/100 grade bitumen using 40/60TPH capacity H.M.P with Mechanical paver Gr II (50/75mm) with 3.3% VG-30 Bitumen as per the directions of Engineer-in-charge of the work ( PWDSR 2015-16, P.No.161, I No.21.11.6) | | | | | | | | |
| | | Cum | 1 | 1440.00 | 1.50 | 0.05 | 108.00 | | |
| | Basic Rate | 5735.00 | | | | | **108.00** | 6193.80 | 668930.00 |
| | Add Area Weightage 8% | 458.80 | | | | | | | |
| | Total | **6193.80** | | | | | | | |
| | | | | | | | | | |
| 15 | Providing and laying **bituminous concrete** with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filter transporting the hot mix to work site laying with paver finisher to the required grade, level and alignment. rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction as per MORTH Speicification clause no 500.9 complete in all respects complete as per specification no 509. using 40/60 TPH Capacity H.M.P With Mechanical paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen (p-164, lt 21.22.6) PWD SR 2015-16 | | | | | | | | |
| | | Cum | 1 | 1440.00 | 4.00 | 0.045 | 259.20 | | |
| | Basic Rate | 9095.00 | | | | | **259.20** | 9822.60 | 2546018.00 |
| | Add Area Weightage 8% | 727.60 | | | | | | | |
| | Total | **9822.60** | | | | | | | |

| Sl | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 16 | Disposal of debris to the final place of disposal with all lead and lift and ~s direction by the engineer in charge of the work, lead 4 Km a) Bas.. rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Page No. 133 Item No. 17.1 PWD SR 2015-16 | | | | | | | | |
| | | Cum | Qty Vide Item No. 1 | | | | 162.00 | 84.50 | 13689.00 |
| | Loading and Unloading | 68.00 | | | | | | | |
| | Lead 4 KMs | 10.24 | | | | | | | |
| | | 78.24 | | | | | | | |
| | Area Weightage @ 8% | 6.26 | | | | | | | |
| | Total | 84.50 | | | | | | | |
| 17 | Quality control Test Charges 1% | | | | | | | | 50000.00 |
| | | | | | | | | | |
| 18 | Miscellaneous and UnforessenCharges | | | | | | | | 1261.00 |
| | | | | | | | | | |
| | | | | | | | | Total | 5000000.00 |

(Rupees.Fifty Lakhs Only)

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary
2 The Estimate is prepared as per the PW,P & IWTD -SR-2015-16
3 The Provision made in estimate are adequate and essential.
4 This area comes under BBMP limits.

Assistant Engineer
Ward-14

Assistant Executive Engineer
T. Dasarahalli Sub-Division
B.B.M.P

Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.

A/S

ನಂ: AC(DH) AS/04/2016-17 ದಿನಾಂಕ : 12/05/16
ರೂ. 50.00 lakhs (Rupees Fifty lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆದಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
Page No. 34
Sl. No. 04
ಆಪರ ಆಯುಕ್ತರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು
13/5/16

ನಂ. CE(DZ)/TS/31/2016-17 ದಿನಾಂಕ : 25-05-2016.
ರೂ. 50.00 lakhs /- (Rupees fifty lakhs only)
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ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.